

PARAGRAPHS ADDED TO SUBSTITUTE SPECIFICATION (CONSECUTIVE)

For single axis, GPS-supported track control systems which are equipped with a gyroscope and Kalman filter correction, United States patent Serial No. 5,469,158 discloses the scale factor errors caused by external influences (temperature, humidity) on the system electronics and optics being compensated for by a calibration during manufacture and by scale factor control of the gyroscope. A multiple axis track and attitude reference system that is fed from a common light source and, in particular, the scale factor error which follows from a change in the light wavelength are not addressed.

The inertial sensor system with GPS assistance described in United States patent Serial No. 5,617,317 is primarily intended to improve the heading accuracy with respect to true North, which is considered to be of greater importance than the roll and pitch axes of an aircraft.